

Number and annual average rate¹ of surface fatalities associated with various types of employers and commodities, by type of incident², 1994-1998.

Type of Incident		Type of Employer and Commodity							Total
		Mine Operators					Independent Contractors		
		Coal	Metal	Nonmetal	Stone	Sand & Gravel	Coal	M/NM³	
Powered haulage	No.	22	8	4	37	18	11	18	118
	Rate	8.9	4.2	3.6	11.1	11.8	15.9	19.9	9.8
Machinery	No.	12	0	2	12	9	6	15	56
	Rate	4.8	0.0	1.8	3.6	5.9	8.7	16.6	4.7
Slip or fall of person	No.	3	2	0	5	6	3	11	30
	Rate	1.2	1.0	0.0	1.5	3.9	4.3	12.2	2.5
Falling, rolling, or sliding rock or material	No.	2	2	0	9	2	3	2	20
	Rate	0.8	1.0	0.0	2.7	1.3	4.3	2.2	1.7
Electrical	No.	3	3	3	4	0	3	1	17
	Rate	1.2	1.6	2.7	1.2	0.0	4.3	1.1	1.4
Unknown or NEC	No.	1	1	0	1	5	1	4	13
	Rate	0.4	0.5	0.0	0.3	3.3	1.4	4.4	1.1
Fall of ground (from in place)	No.	3	0	0	2	0	0	3	8
	Rate	1.2	0.0	0.0	0.6	0.0	0.0	3.3	0.7
Explosives and breaking agents	No.	1	0	0	3	0	1	2	7
	Rate	0.4	0.0	0.0	0.9	0.0	1.4	2.2	0.6
Hand tools	No.	0	0	1	1	1	1	2	6
	Rate	0.0	0.0	0.9	0.3	0.7	1.4	2.2	0.5
Ignition/explosion of gas/dust	No.	2	0	0	0	1	0	0	3
	Rate	0.8	0.0	0.0	0.0	0.7	0.0	0.0	0.3
Exploding vessels under pressure	No.	0	1	0	2	1	0	0	4
	Rate	0.0	0.5	0.0	0.6	0.7	0.0	0.0	0.3
Handling materials	No.	0	0	0	0	2	0	2	4
	Rate	0.0	0.0	0.0	0.0	1.3	0.0	2.2	0.3
Fire	No.	0	2	0	0	0	0	0	2
	Rate	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.2
Hoisting	No.	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Inundation	No.	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	No.	49	19	10	76	45	29	60	288
	Rate	19.7	9.9	9.0	22.7	29.5	42.0	66.4	24.0

¹Computed per 200 million employee hours or 100,000 FTEs.

²MSHA's accident/injury/illness classification.

³Includes Metal, Nonmetal, Stone, Sand and Gravel.